

# ABIR THAPA

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## TECHNICAL SKILLS

**Cloud Platform:** AWS (EC2, VPC, EKS, S3, IAM, CloudWatch, RDS, ECR, Lambda), GCP (GKE, Compute Engine, CloudBuild), VMware Vsphere, OpenStack

**Infrastructure & DevOps:** AWS, GCP, Docker, Kubernetes (GKE, EKS), Jenkins, Terraform, Git/GitHub, GitHub Actions, Helm, Ansible

**Programming Languages:** Python, Java, Bash, Go(basic), JavaScript (React), Next Js, MYSQL

**Developer Tools & Methodologies:** Linux, Jira, Agile

**Monitoring Tools & Observability:** Prometheus, Grafana, AWS CloudWatch, Zabbix, DataDog (basic)

## EXPERIENCE

**reFern (Climate Tech Startup)** | Cloud Architect Consultant (Contract)

Jan 2025 - April 2025

- Identified 3+ architectural bottlenecks; reduced cloud spend by **40%** by **optimizing** container usage and switching to static hosting on DigitalOcean App Platform.
- Audited DigitalOcean & Supabase stack for **scalability**, **cost** and **security**; flagged gaps in MFA and backups.
- Bench-marked AWS Amplify, Vercel & Firebase.
- Mapped future ready migration strategy for 5x users scaling with **25%** lower-cost.
- Overhauled Supabase auth; enabled email-based onboarding, strong password policies, and eliminated manual credential sharing.
- Proposed **ISO 27001**-aligned controls including encrypted DB exports, row-level security, HTTPS enforcement, and GitHub Secrets

## PROJECTS

**Threat Intelligence Powered SOC** | GKE, Docker, Wazuh, Graylog, Grafana

- Collaborated in an **Open-Source** threat intelligence application which takes data from different applications and logs it into grafana for visualization and auditing.
- Converted dockerfiles to respected manifest files to be deployed on **GKE**
- Collaborated with team and deployed a stack using **Helm**, secured it with cert-manager TLS and backed Graylog with OpenSearch.
- Used Prometheus for better visualization of wazuh metrics and triage workflows with Grafana.
- Designed a **CI/CD** pipeline .

**CI/CD Pipeline for Containerized Deployments** | Terraform, Github Actions, AWS EKS, Docker

- Developed an automated CI/CD pipeline for microservices on **EKS** using **Github Actions**.
- Developed reusable modules to automate provisioning of VPC, IAM roles, EKS node groups, and security groups, aligning with enterprise-grade IaC practices.
- Reduced manual deployment time by 80% and improved reliability of releases across dev and prod.
- Dockerized builds, pulled images from dockerhub and performed unit tests.

**Dockerized Website** | Terraform, AWS EC2, Docker, Ansible

- Dockerized a web application and set up CI/CD with **GitHub Actions** for deployment to Amazon **EC2**.
- Usage of **ansible** playbook to automate installation of **Docker**
- Usage of terraform to implement **EC2** and **VPC**.

## EDUCATION

**Post Graduate CloudOps**

York University

Sept 2024 – May 2025

North York, ON

**Post Graduate Virtualization and Cloud Computing**

Conestoga College

Sept 2023 – April 2024

Waterloo, ON

**Honours Bachelor of Computer Science**

Delhi University

2019 – 2022

New Delhi, Delhi, India